

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-176316

(43)Date of publication of application : 09.07.1996

(51)Int.Cl. C08J 5/18
B32B 27/10
G09F 3/10

(21)Application number : 06-324876 (71)Applicant : NIPPON SHOKUBAI CO LTD

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(54) ALKALI-SOLUBLE FILM AND ITS USE, ALKALI-SOLUBLE COATING AGENT

(57)Abstract:

PURPOSE: To obtain an alkali-soluble non-blocking film comprising a specific polymer and a polyvalent metal, capable of being printed, high in mechanical strength, having a stable strength and a stable dimensional characteristic, and useful as a substrate for labels, etc.

CONSTITUTION: This film comprises (A) a polymer obtained by copolymerizing (i) an α , β -unsaturated carboxylic acid monomer with (ii) at least one vinylic monomer in a non-aqueous medium, and (B) a polyvalent metal (preferably either one of Mg, Ca and Zn). Therein, the component (i) is preferably methacrylic acid or acrylic acid, and at least 30 pts.wt. of the component (ii) is preferably an alkyl acrylate or alkyl methacrylate. The component A has an acid value of 70-300mg KOH/g, a number-average mol.wt. of 10000-500000, and a glass transition temperature of -30 to 120° C, and is preferably insoluble in neutral or acidic water and soluble in an alkaline water.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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